

on the first recording layer, a lead-in area, management information for the whole of recording information, and the data group are recorded;

on the second recording layer, a lead-out area and a data group are recorded;

the lead-in area is recorded at the inner radius side of the information record medium; and
the lead-out area is recorded at the inner radius side of the information record medium.

6. (New) The information record medium according to claim 5, wherein the medium further comprises: a mid area at the outer radius side of the first recording layer; and the other mid area at the outer radius side of the second recording layer.

7. (New) The information record medium according to claim 6, wherein the first recording layer comprises the lead-in area, the management information, the data group, and the mid area in that order from the inner radius side of the first recording layer.

8. (New) The information record medium according to claim 6, wherein the second recording layer comprises the mid area, the data group, and the lead-out area in that order from the outer radius side of the second recording layer.

9. (New) The information record medium according to claim 6, wherein the data group comprises: control data; and at least either video information or audio information.

10. (New) A recording apparatus comprising: a signal processing device which generates additional information including a data group and management information for the whole of recording information; and a recording device which records a lead-in area, the management information, and a data group on a first recording layer of an information record medium and records a lead-out area and a data group on a second recording layer of the information record medium,

wherein the recording device records the lead-in area at the inner radius side of the information record medium, and records the lead-out area at the inner radius side of the information record medium.

11. (New) The recording apparatus according to claim 10, wherein the recording device records a mid area at the outer radius side of the first recording layer, and records the other mid area at the outer radius side of the second recording layer.

12. (New) The recording apparatus according to claim 11, wherein the first recording layer comprises the lead-in area, the management information, the data group, and the mid area in that order from the inner radius side of the first recording layer.

13. (New) The recording apparatus according to claim 11, wherein the second recording layer comprises the mid area, the data group, and the lead-out area in that order from the outer radius side of the second recording layer.

14. (New) The recording apparatus according to claim 10, wherein the data group comprises: control data; and at least either video information or audio information.

15. (New) A recording method comprising: a signal processing process for generating additional information including a data group and management information for the whole of recording information; and a recording process for recording a lead-in area, the management information, and a data group on a first recording layer of an information record medium and for recording a lead-out area and a data group on a second recording layer of the information record medium,

wherein the recording process records the lead-in area at the inner radius side of the information record medium, and records the lead-out area at the inner radius side of the information record medium.

16. (New) The recording method according to claim 15, wherein the recording process records a mid area at the outer radius side of the first recording layer, and records the other mid area at the outer radius side of the second recording layer.

17. (New) The recording method according to claim 16, wherein the first recording layer comprises the lead-in area, the management information, the data group, and the mid area in that order from the inner radius side of the first recording layer.

18. (New) The recording method according to claim 16, wherein the second recording layer comprises the mid area, the data group, and the lead-out area in that order from the outer radius side of the second recording layer.

19. (New) The recording method according to claim 15, wherein the data group comprises: control data; and at least either video information or audio information.